SIEMENS

In re Application of:



PATENT Attorney Docket No. 2003P07614US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	• •					
Invent	or:	R. Ruka et al.)			
Serial No.: Filed: Title:		10/663,949)	Group Art Unit:	1745	
		September 16, 2003)	Examiner:	M. Austin	
		PLASMA SPRAYED CERAMIC-METAL FUEL ELECTRODE				

Commissioner For Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

DECLARATION OF GEORGE R. FOLSER UNDER 37 C.F.R. § 1.31

- 1. I, George R. Folser, a citizen of the United States, hereby declare and state as follows:
- 2. I am a co-inventor of the above-identified patent application.
- 3. I have been continuously employed by Siemens Westinghouse Power Corporation and its predecessor, Westinghouse Electric Corporation, since July 1970. I am currently a senior engineer within the stationary fuel cells division.
- 4. Prior to February 28, 2003, I, along with my co-inventors Roswell J. Ruka and Srikanth Gopalan, conceived in the United States an embodiment of the invention

Serial No. 10/663,949

Atty. Doc. No. 2003P07614US

disclosed and claimed in above-identified patent application. We submitted an Invention

Disclosure form that included a description of our invention on March 2, 2001 to the

Siemens Westinghouse Power Corporation Intellectual Property Department, a copy of

which is attached as Exhibit 1.

5. After submitting the Invention Disclosure, we diligently refined our invention and

reduced it to final development and practice, as evidenced by the email from our in-house

patent attorney John Musone to me dated December 11, 2002 which is attached as

Exhibit 2.

6. Soon after refining our invention to final development, we reviewed a patent

application for our invention that was prepared by John Musone, as evidenced by the

email from John Musone to me dated February 28, 2003 which is attached as Exhibit 3.

7. There were difficulties in making some final edits that we made to the patent

application because the US Army reactivated John Musone for military service in the war

on terror and a suitable replacement had to be found, as evidenced by the email from

Sandra Steunenberg to me dated June 4, 2003 which is attached as Exhibit 4.

8. After the final edits were made to the patent application, I signed the formal

patent documents (declaration and assignment). However, on information and belief, I

understand that there were difficulties in obtaining the formal document signatures from

Srikanth Gopalan who had recently terminated his employment with Siemens

2

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Serial No. 10/663,949

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Westinghouse Power Corporation and began employment as a Professor at Boston University, as evidenced by the email from Sandra Steunenberg to Srikanth Gopalan email dated August 14, 2003 which is attached as Exhibit 5.

- On information and belief, in accordance with standard corporate practices, the 9. fully revised and signed patent application was diligently filed with the US Patent Office on September 16, 2003.
- On information and belief, at all times prior to filing, the invention was 10. maintained as Siemens Westinghouse confidential information and not publicly available.
- On information and belief, as exemplified above, my co-inventors and I, as well 11. as the Siemens Westinghouse Intellectual Property department, exercised due diligence from the conception and reduction to practice (prior to February 28, 2003) to filing the patent application (September 16, 2003).
- All statements made herein of my own knowledge are true, and all statements 12. made of information and belief are believed true. I acknowledge that willful false statements and the like are punishable by fine or imprisonment, or both, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: 1/26/05

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1. Yo	our Div.'s	Project # Title of the inve	ention Process for	r Obta	ining Thermal Cycl	iable F	uel Electrodes by a Plasma Spray Method	
	IVENTOR				3. CO-INVENTO			
At the t	time the in	evention was conceived, this in	ventor was		At the time the in		additional forms for more co-inventors) on was conceived, this inventor was	
🛛 an e	employee	of a German legal entity (e.g. S	Siemens AG)		🛛 an employee	of a G	German legal entity (e.g. Siemens AG)	
		of a non-German entity (e.g. S poration or Siemens Canada Li					non-German entity (e.g. Siemens on or Siemens Canada Limited)	
		ure, contact IPD at +1-407-28			If you are not so	ure, c	ontact IPD at +1-407-281-2415	
Full Na	me	Roswell J. Ruka			Full Name	Georg	ge R. Folser	
Home /	Address	51 Churchill Road			Home Address		Edward St.	
		Pittsburgh, PA 15235			Citizen of		er Burrel, PA 15068	
Citizen		<u>U.S.A.</u>			Soc. Sec. #	U.S.	<u>A.</u> 32-7028	
Soc. Se		389-28-3089 ATION INFORMATION					N INFORMATION	
Employ		Siemens Westinghouse Power C	Corporation		Employer		ens Westinghouse Power Corporation	
Division		SFC 1310 Beulah Road			Division Address	SFC 1310	Beulah Road	
Addres	15	Pittsburgh, Pennsylvania 1523	5-5098		71007000		burgh, Pennsylvania 15235-5098	
Work to	elephone	412-256-1695			Work telephone		256-5528	
Fax		412-256-5504			Fax Email		256-5504	
Email	_	roswell.ruka@swpc.siemens.com	1		Ciliali Q	georg	ge.folsor@swpc.siemens.com	
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Date _	3/2	120010	, C. C.			3-2	1-01	_
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4. Pt	urpose(s),	and likely field(s) of use of this	invention App	licatio	n in SOFC genera	ators		
		tion still secret within Siemens		10 🗆		2 VEC		
Do you soon plan to make the invention information available outside of Siemens? YES \(\subseteq \) NO \(\subseteq \) Based on your answer to Question #5, explain when and how this invention was/will be made available to someone outside of Siemens						s		
(e.g. trade show at location/date, customer presentation at company/location/attendees/date, supplier prototyping by company/date, included in product brochure or advertisement in publication/date, industry technical symposium paper presented place/date, etc)								
include	a in produ	ict brochure of advertisement i	i publication/dat	ie, ina	ustry technical syl	mposii	um paper presented place/date, etc)	
6. W	here is thi	s invention described? List all	documents conf	taining	aspects of this in	nventic	on (e.g. engineer notebook date/page,	
int	temal stat	us report, test logs, physical pr					, ,	
	nis docum That date d	ent to you recall creating this inven	tion?		····			
/. W	hen do yo	ou recall first explaining this inven	ention to a witne	ess wh	o is not also a co-	-invent	tor?	<u> </u>
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9. W								
	Was it developed under a government contract? YES ☑ NO ☐ If yes to either, please give contract name and number, and further explain the situationDE-FC26-97FT34139							
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IF THE	E ANSW	ERS TO ANY OF THESE O	UESTIONS C	HAN	GE BEFORE T	HIS IN	NVENTION IS FILED AS A PATENT	•
		WITH THE GOVERNMEN						
10. W	ITNESSE	DANO UNDERSTOOD BY:						
Signatu	re	Il with		_	Company Name	, <u>Ş</u>	Jemens Wastinghouse	_
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Heturn this completed form,	THIS SECTION FOR IPD USE ONLY				
with any necessary attachments, to SIEMENS CORPORATION	Receipt Date Stamp Division/Dept Code				
Intellectual Property Department (IPD)	Cost Center Code				
4400 Alafaya Trail Orlando, FL 32826	Docket No.				
phone +1-407-281-2415	IP Attorney				
fax 1-407-281-5048 PLEASE KEEP A COPY FOR YOUR RECORDS	ir Attorney				
 Your Div.'s Project # Title of the invention <u>Proc</u> INVENTOR 	cess for Obtaining Thermal Cyclable Fuel Electrodes by a Plasma Spray Method 3. CO-INVENTOR (if any)				
At the time the invention was conceived, this inventor was an employee of a German legal entity (e.g. Siemens AG) an employee of a non-German entity (e.g. Siemens Automotive Corporation or Siemens Canada Limited) if you are not sure, contact IPD at +1-407-281-2415 Full Name Strikanth Gopalan Home Address 312 Penn Lear Ct.	(use additional forms for more co-inventors) At the time the invention was conceived, this inventor was				
Monroeville, PA_15166					
Citizen of <u>U.S.A.</u>	Citizen of				
Soc. Sec. # <u>646-03-7864</u>	Soc. Sec. #				
COMPANY/LOCATION INFORMATION Employer Siemens Westinghouse Power Corporation	COMPANY/LOCATION INFORMATION Employer				
Division SFC Technology and Innovation	Division				
Address 1310 Beulah Road	Address				
Pittsburgh, Pennsylvania 15235-5098	Work telephone				
Vork telephone <u>412-256-1660</u> Fax 412-256-5504	Fax				
Email srikanth.gopalan@swpc.siemens.com	Email				
G. Caspalla	0'				
Signature G-Shi Ranth	Signature				
Date	Date				
4. Purpose(s), and likely field(s) of use of this invention					
5. Is this invention still secret within Siemens? YES	NO 🗆				
Do you soon plan to make the invention information av Based on your answer to Question #5, explain when and ho (e.g. trade show at location/date, customer presentation at concluded in product brochure or advertisement in publication	vailable outside of Siemens? YES \(\) NO \(\) by this invention was/will be made available to someone outside of Siemer company/location/attendees/date, supplier prototyping by company/date, l/date, industry technical symposium paper presented place/date, etc)				
Where is this invention described? List all documents containing aspects of this invention (e.g. engineer notebook date/page, internal status report, test logs, physical prototypes, customer presentation, etc) This document					
7. What date do you recall creating this invention?	dhaca who is not also a co is not a				
When do you recall first explaining this invention to a witness who is not also a co-inventor?					
Has this invention been prototyped or tested yet? If so	, when, where, by who? What were the results?				
Presently a cell test is being assembled.					
-	litional sheets to better describe this invention.				
 Was this invention developed under, or quoted for, a cu Was it developed under a government contract? YES [If yes to either, please give contract name and number 	□ NO □				
F THE ANSWERS TO ANY OF THESE QUESTION: APPLICATION WITH THE GOVERNMENT, MAKE S 10. WITNESSED AND UNDERSTOOD BY:	S CHANGE BEFORE THIS INVENTION IS FILED AS A PATEN' SURE TO SEND AN UPDATE TO THE IPD.				
Signature SL Ren	Company Name Signers Westinghouse				
Vame GIAN FRANCO DI CIUSON	Company Address 1310 Beu) a 4 Res.				
Date 3/4/0/	Pitts burg 4 Pa. 15235				

INSTRUCTION ON HOW TO USE THIS INVENTION (INV) DISCLOSURE

General

- PLEASE TYPE OR PRINT CLEARLY. Answer all questions. Use N/A when not applicable.
- Sign and date each page of the INV Disclosure in ink.
 Sign and date all attached additional sheets, diagrams, photographs, etc.,
 Please provide all of your given names in full in sections 2 and 3. When there are more than two inventors, use another form and complete and items 1, 2, 3 and 10 on the extra forms.
- Every page of the form and accompanying papers should bear the signature of a witness and the date of his/her signing. The witness should have read the forms and attached papers, and should understand the invention before witnessing. The witness should have a technical background related to the invention, to reduce the chances that someone can later challenge his/her ability to have understood the invention.
- A co-inventor should not the witness. If you have a choice of several qualified witnesses choose the witness you
 believe is most likely to still be a Siemens employee available in this country if a question comes up several
 years from now. That means you should avoid having a co-op student, contract engineer, or a retiring engineer
 serve as your witness.

Detailed Description

- The description you provide may serve as the basis for a patent application. Therefore, be as complete and as accurate as possible. Attach pages as necessary, using the following checklist as a guide for content.
 - Ahetraci

In one or two sentences describe briefly what your Invention does and how it is used, e.g., "A voltage-controlled oscillator (VCO) has its period controlled by a current provided by a current source. The current is proportional to the reciprocal of a control signal so that the VCO frequency is directly proportional to the control signal."

Background Information

What is the function of your invention?
What is the problem solved by your invention?
How was the function of your invention performed by the prior work?
What are the disadvantages of the prior work?

What are the advantages of your invention over the prior work?

Details

Describe in detail the structural and functional operation of your invention. Use drawings and graphs where they would be helpful. Give specific details, not just general information.

Point out what improvements your invention incorporates or the superior performance which is obtained and why it is obtained (if you know why).

Are there alternative methods or different structural embodiments of your invention?

Can the general idea or technique of your invention be extended to other related fields? How?

Which features are believed to be new?

Describe how you best envision your invention being put to use.

Prior Art

Attach a copy (for bibliographic citation) of all publications, patents, etc. that you know about which relate to your invention, and which you think might be important to consider in understanding how your invention differs from prior work.

REMEMBER TO UPDATE THE IPD OF ANY OF THE INFORMATION YOU PROVIDED CHANGES.

Yes, I promise I will update the Siemens Intellectual Property Department (IPD) if any of the information I've provided changes.

SUPPLEMENTAL SHEET FOR INVENTION (INV) DISCLOSURE

TITLE

Process For Obtaining Thermal Cyclable Fuel Electrodes by a Plasma Spray Method

BACKGROUND

Metal cermet fuel electrodes such as porous nickel/yttria stabilized zirconia (YSZ) are commonly used in Solid Oxide Electrolyte Fuel Cells (SOFC) Solid Oxide Electrolysis Cells (SOECS) and oxygen pumps. Typically, these are applied to a thin film zirconia based electrolyte by a high temperature sintering process or by a method in which a stabilized zirconia layer forms as a "skeleton" around a porous layer of nickel particles on a zirconia type electrolyte and attaches itself firmly to the electrolyte as well. Both of these methods form a strongly adhering nickel/YSZ fuel electrode which can be thermal cycled without detaching and can survive thermal cycling.

A third method of applying such an electrode is by plasma spraying. However, to provide the combined mechanical, electrical and structural requirements for the fuel electrode such temperature cyclability, adequate porosity and high electrical conductivity is more of a problem. Adherence of the cermet layer to the electrolyte produced by the electrochemical vapor deposition (EVD) process, prevents the bond strength needed for the cermet layer.

THE INVENTION

We disclose processes for obtaining cermet electrodes of nickel/stabilized zirconia or copper stabilized zirconia where the zirconia is preferably stabilized by yttria (in solid solution) and is used with a Siemens-Westinghouse type tubular fuel cell although it is not restricted to this SOFC geometry.

For the case of a copper cermet fuel electrode, a porous tube of lanthanum manganite doped with calcium and other components to provide desired chemical stability, electrical conductivity and thermal expansion with surface coating layers of an EVD zirconia type electrolyte and a doped lanthanum chromite interconnection as described in earlier patents is given an additional thin film layer. Typically 5 to 20 μm coating of YSZ, which after sintering at 1300°C or above, provides a surface textures which is porous and rougher than the underlying EVD electrolyte. A plasma spray copper electrode adheres well to this modified surface structure, in contrast to its very poor adherence to an unmodified EVD electrolyte surface. The underlying EVD electrolyte layer is necessary for this application since it is very dense and pore free. This requirement is necessary to prevent copper penetration which will electrically short-circuit the cell.

The surface coat of a stabilized zirconia (e.g. YSZ) over an EVD electrolyte is similarly useful for obtaining and adherent nickel cermet (e.g. Ni/YSZ) fuel electrode on a SOFC. However, since penetration of the electrolyte by nickel is not such a severe problem as it is with copper we can obtain an adherent plasma spray Ni/YSZ electrode on an unmodified plasma spray electrolyte. Plasma spray electrolyte produces a rougher surface texture than an EVD electrolyte film which enhances the adherence of the Ni/YSZ electrode.

Inventor's Signature:

Witness' Signature:

Date:

SUPPLEMENTAL SHEET FOR INVENTION (INV) DISCLOSURE

A SOFC with a combined plasma spray electrolyte and nickel/YSZ fuel electrode has been on test for over a year and still shows a good performance. Figure 1 shows the stable operation of this cell, running at about 300mA/cm² for 10,600 hrs. with gight thermal cycles.

CLAIMS

- 1) A process for producing an adherent metal cermet fuel electrode on the electrolyte of an SOFC by a plasma spray process which results in a high conductivity, porous, low polarization electrode capable of being temperature cycled without damage.
- 2) The process (1) where the electrode is a copper + stabilized zirconia, preferably Yttria-stabilized zirconia (YSZ) consisting of a first thin layer made by an electrochemical vapor deposition (EVD) process overlaid by a thin sintered layer of a similar composition.
- 3) The process (1) where the electrode is a nickel + stabilized zirconia cermet and the electrolyte is produced either plasma spraying stabilized zirconia (preferably YSZ) or by combining a first layer of EVD with a second thin layer of sintered stabilized zirconia (preferably YSZ).
- 4) Processes (2) and (3) where the sintered portion of the electrolyte is made from Sub-micron particles of stabilized zirconia (preferably YSZ)
- 5) Processes (2), (3), and (4) where the yttria-stabilized zirconia (YSZ) has a chemical Composition with 8 to 16 mole per cent of the zirconia replaced by yttria (e.g. Z_{1-x}Y_xO_{2-x/2}) where x lies at or between .08 and .16).

Witness' Signature:

Date:

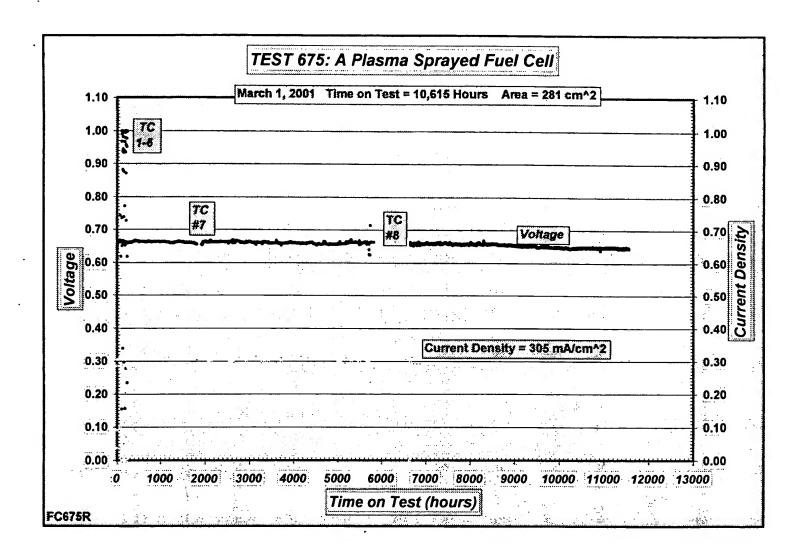


Figure 1

Solution 3-2-01

Inventor's Signature: Sasuell flowers Witness' Signature: Date: 3/2/01

Date: 3/2/2001

Date: 3/2/01

Musone John P SWPCLC

From:

Musone John

Sent:

Wednesday, December 11, 2002 8:55 AM

To:

Folser George R

Subject:

You APS Fuel Electrode Invention Disciosure

George, what is the status of the work that you were doing to refine the APS Fuel Electrode process (Invention Disclosure No. 2001E04298US) that we were preparing a patent application? You may recall that when we were preparing the patent application for the APS Interlayer (Invention Disclosure No. 2001E04293US, which we filed in September 2002 as 2002P13915), we decided to put the APS Fuel Electrode patent application "on hold" because you were refining the process. I would like to move this patent application along if possible. Thanks. John

John P. Musone, Esq. Intellectual Property Counsel Siemens Corporation 4400 Alafaya Trail Orlando, FL 32826 (407) 736-6449 (ph) (407) 736-6440 (fax) john.musone@siemens.com

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Tracking:

Recipient

Folser George R

Musone John P SWPCLC

From:

Musone John

Sent:

Friday, February 28, 2003 11:00 AM

To: Cc: Foiser George R Steunenberg Sandra J

Subject:

RE: Your APS Fuel Electrode Invention Disclosure

~ \

George, thanks for your effort. I made all your changes and also incorporated changes you made in the other APS patent application that we filed a few months ago. Sandy will be contacting you shortly for your signature on the formal documents (declaration and oath). Regards. John

John P. Musone, Esq.
Intellectual Property Counsel
Siemens Corporation
4400 Alafaya Trail
Orlando, FL 32826
(407) 736-6449 (ph)
(407) 736-6440 (fax)
john.musone@siemens.com

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----Original Message----

From: Folser George R

Sent: Wednesday, January 29, 2003 12:34 PM

To: Musone John

Subject: RE: You APS Fuel Electrode Invention Disclosure

John,

I sent you an E- mail regarding this disclosure. Sorry about the delay in getting back to you.

----Original Message----

From: Musone John

Sent: Wednesday, January 29, 2003 12:31 PM

To: Folser George R

Subject: Out of Office AutoReply: You APS Fuel Electrode Invention

Disclosure

I will be out of the office January 29- February 4. During my absence, I will be accessing my vociemail but not my email. I will get back to you as soon as possible. If you need any assistance, please contact Dan Staudt at ext. 6-2415.

Tracking:

Recipient

Folser George R

Steunenberg Sandra J

Steunenberg Sandra J SWPCLC

From: Steunenberg Sandra J

Wednesday, June 04, 2003 2:21 PM Sent:

'Srikanth Gopalan'; Ruka Roswell J; Folser George R To:

docs for your review and signature Subject:

High Importance:















APSFuelElectrode.dSiemens04298CrossSiemens0408CrossSiemens04298CrossSiemens04298CrossSiemens04298CrossSiemen (1).pdf (2).pdf (3).pdf (4).pdf

X

Declaration & POA.doc

Hello

Gentlemen,

Sorry to be so long in getting back to you with these documents. I didn't realize until I went to send them initially that some edits had not been made and so I had to figure out what attorney was going to handle this file during John Musone's reactivation to the military.

At long last, attached are the spec and drawings, as well as the Assignment and Declaration & POA. If everything is as it should be please execute the attached Assignment and Declaration & Power of Attorney and fax them back to me for filing with the application package (the originals can be mailed back via intra-company mail or standard US mail). Please be certain to check the spelling of your names, addresses, and citizenship prior to signing. The Assignment must be witnessed by a Notary who will fill in the County if it is not already done.

If you have any questions, please feel free to contact me.

Thank you, in advance, for your assistance.

Sandy

Sandra J. Steunenberg Intellectual Property Legal Assistant Siemens Westinghouse Power Corp., Q1-111 4400 Alafaya Trail Orlando, Florida 32826-2399 Phone 407-736-2472 FAX 407-736-6440

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----Original Message----

From: Srikanth Gopalan [mailto:sgopalan@bu.edu]

Sent: Friday, May 23, 2003 12:10 PM

To: Steunenberg Sandra J

Subject: RE: info needed for documents

Steunenberg Sandra J SWPCLC

Srikanth Gopalan [sgopalan@bu.edu] From: Thursday, August 14, 2003 10:04 AM Sent: Steunenberg Sandra J LC To: RE: docs for your review and signature...round three Subject: I just sent them out yesterday. -Srikanth ----Original Message----From: Steunenberg Sandra J [mailto:sandra.steunenberg@siemens.com] Sent: Friday, August 08, 2003 5:56 PM To: 'sgopalan@bu.edu' Subject: docs for your review and signature...round three Srikanth, I still have not received any documents from you either by fax or mail. Did you send them? Sorry if I am being a pest. Sandy ----Original Message----From: Steunenberg Sandra J Sent: Tuesday, July 29, 2003 12:32 PM To: 'Srikanth Gopalan' Subject: RE: docs for your review and signature...round two You can fax them to me at 407-736-6440 and then mail me the hardcopies at Sandra J. Steunenberg Intellectual Property Legal Assistant Siemens Westinghouse Power Corp., Q3-040 4400 Alafaya Trail Orlando, Florida 32826-2399 Thanks for all your help, Sandy ----Original Message----From: Srikanth Gopalan [mailto:sgopalan@bu.edu] Sent: Tuesday, July 29, 2003 12:30 PM To: Steunenberg Sandra J Subject: RE: docs for your review and signature...round two Ok I have the forms signed and notarized. Question: Where do I send them? -SG ----Original Message----From: Steunenberg Sandra J [mailto:sandra.steunenberg@siemens.com] Sent: Thursday, July 17, 2003 1:58 PM To: 'sgopalan@bu.edu'

Subject: FW: docs for your review and signature...round two

Importance: High